REHABILITATION STRUCTURE SURVEY REPORT

Wisconsin Department of Transportation

DT1696 6/2012						
					RECEIVED 5/15/2019 BUREAU OF STRUCTURES	
☐ Railroad ☐ Retaining Wall ☐ Noise Barrier						
☐ Sign Structure ☐ Other:						
For guidance see: http://dotnet/d	tid_bos/extranet/structures/repo	rts-checklists.htm				
Design Project ID	Construction Project ID	Highway (Project Na	•			
1090-35-00	1090-35-70	Rock Freeway II				
Final Plan Due Date	Preliminary Plan Due Date	☐ Town ☐ Village ☐ City				
12/1/2019	5/15/2019	New Berlin				
PS&E Date	Letting Date	County				
2/1/2020	5/12/2020	Waukesha				
Structure Number	Section	Town		Range		
B-67-113		S32	T06N		R20E	
Station 100+00	Latitude: 42°55'59.06"		Structure Located of	on National High	ghway System	
	Longitude: 88°09'31.33"					
For Survey and CADD Files Horizontal Coordinate System: WCCS	C. Waukaaha Cauntu Zana	Traffic Forecast Data				
NAD 83 (2011)		A Daile	Daaduus			
Vertical Datum: NAVD88 (2012)	Design Year	Average Daily Traffic (ADT)	Roadwa Design Spe			
Feature On	Feature On	, ,	<u> </u>	Oth Prin Art-		
CTH Y		2042	23,000	45 mph	Urban (14)	
Feature Under	Feature Under			Interstate-		
IH 43	2042	61,500	75 mph	Urban (11)		
Region Contact: Lance Parve	Consultant Contact:	Mohammed Zaglo	ul PE,SE			
(Area Code) Telephone Number(s): (4	(Area Code) Telephone Number(s): (414) 751-7223					
Email: lance.parve@dot.wi.gov	Email: mzagloul@	kapurinc.com				
		-				
	Work	To Be Performe	ed			
Field Information Required						
Item Number (see Pages				nber (see Pages 2–4)		
☐ A. Structural			1–3, 22			
⊠ B. Overlav			1–3. 10–22	2, 26–28, 32, 34		
☐ B. Overlay						

☐ Concrete Overlay ☐ Asphalt Overlay ☐ Polymer Modified Asphalt Overlay □ Thin Bonded Polymer Overlay ☐ Other: ☐ H. New Deck......1–6, 9, 10, 13–28, 32–34 ☐ M. Slope Stabilization.......1–3, 30 □ P. Other: ____

Field Information Required

If no structure number exists provide the following: Small County Map on which the location of proposed structure is shown in red and any highway relocation in green. In addition, provide Location Map of scale not less than 1" = 2000' showing the structure location and number.

- Most recent inspection report, brief history of bridge construction date, and description of repairs with dates.
 Outline deficient areas on existing structure plan or drawing.
 Photographs of details requiring repairs or modifications, such as: bearings, x-frames, joints, etc. Photograph all deficient areas. Clearly label all photographs.
 Provide proposed typical section for roadway and structure showing dimensions and cross slopes.
 Survey beam seat or girder elevations at both sides of bridge at all substructure units.
 Provide cross-section elevations at 10 foot intervals extending across the structure and a minimum of 100 feet beyond each end. Sections should be normal to centerline and show elevations at centerline roadway and gutter
- ☐ 7. Show and identify starting stationing on bridge.
- ☐ 8. Record measurement, temperature of the structure, and date taken for each of the following:
 - (a) Joint opening measured normal to joint at centerline of roadway and both curb lines.
 - (b) Clearance between girder ends at piers.
 - (c) Distance from front face of abutment backwall to closest point of girder end measured parallel to girder.
 - (d) Temperature of structure determined by averaging top and under deck (if accessible) readings.
- ☐ 9. Fixed and expansion bearings condition and orientation.

line. Take elevations along joints and at floor drains.

- □11. Location of existing construction joints in the deck.

Preparation, Decks, Type 1 Sq. Yd. TBD Preparation, Decks, Type 2 Sq. Yd. TBD Sq. Yd. TBD Full Depth Deck Repair Galvanic Anodes? N/A Concrete Surface Repair Superstructure Sq. Ft. N/A Galvanic Anodes? N/A Concrete Surface Repair Substructure Sq. Ft. N/A Galvanic Anodes? N/A Curb Repair LF. N/A Galvanic Anodes? N/A

	Deck Condition	Superstructure Condition	Substructure Condition	Load Capacity Appraisal	Structural EVAL Appraisal
Current	7 Good	6 Satisfactory	6 Satisfactory	5-Legal Load Stress Not Exceeded	6-Condition Equal to Min. Criteria

	Inventory	Operational	
Current Calculated Date: 07/08/2013	HS16	HS26	
After Completed by Bridge Designer	To Be Completed During Final Design	To Be Completed During Final Design	

Opening at Abutment **Owner and Contact Information** Size Weight Type **Pressure** 2- Lighting Conduits West 2" Dia. Parapet 2- Lighting Conduits East 2" Dia. Parapet ☑ 17. Is existing bridge railing deficient? ☐ Yes ☒ No If Yes – Replacement Rail Type: □ 18. Drains to be: □ Downspouted □ Raised □ Closed □ New ☑ 19. Traffic maintained on bridge during work? □ 20. Will guard rail be attached? ☐ Yes ☐ No If Yes – Which corners? □ 22. Hazardous waste (asbestos) to be removed? ☐ Yes ☑ No If Yes – Explain: ☐ 23. Wing location(s) for surface drain anchors: ☐ 24. Painting? ☐ Yes ☐ No If Yes – Explain on Page 4 (all, part, railing, color system, containment, bid items) ☐ 25. Desired roadway width: (new deck / widening) Ft. Right: _____ Ft. Desired sidewalk clear width: Left: Ft. ≥ 26. Maximum increase in grade line elevation 0.25 In. ☐ 27. Benchmark description to be shown □ 28. Desired final cross slopes on bridge 0.02 Ft./Ft. ☐ 29. Underwater Inspection Report including: Streambed Cross Section With Pier, Footing and Seal Elevations • Pier Elevation Drawings Pier Layout Hydrographic Survey ☐ 30. Slope stabilization, provide: Quantity: ____ CY. Fill: ____ CY. Туре: ____ Slope: _____ Ft./Ft. ☐ 31. Preliminary layout of grout bags or proposed scour repair. C.I.P. Articulated Mats (for Scour) ____ CY.

		Grout Bags (for Scour) Heavy Riprap Extra Heavy Riprap	CY. CY. CY.
\boxtimes	32.	Report submitted with Preliminary Plar	n requires no CADD file submittal (See ESubmittal instructions).
		· · ·	Preliminary Plan to structure design engineer requires CADD file mittal to Soils Engineer if project involves foundation modifications.
\boxtimes		5 5	neer before going into the field if existing structure has no available plans, there are adjoining/adjacent structures that will remain in place.
			ng coordinate with structure and/or hydraulic design engineer to determine stream crossing SSR will be required.

Additional Information

Elaborate on other concerns such as: DNR, Local, Utility Conflicts, Aesthetics, Railing Type and Staged Construction.

Please be as detailed and specific as possible.

WisDOT SE Region advanced Let from 9/2021 to 5/2020 and is developing the roadway plans.

Item #10: Deck repairs and polymer overlay to be done with traffic staging. Traffic staging to be determined during the final design.

Item #12: Quantities for Deck Preparation Type 1 and Type 2 and Full Depth Deck Repair to be determined in final design.

Item #13, 14, 15: These values were taken from the HSI system on 04/24/2019.

Item #16: Utilites on B-67-113. Per the existing plans, the bridge has 2-2" diameter lighting conduits in the west and east parapets. There are also junction boxes located in the west and east parapets.

Item #18: No drains on the structure.

Item #19. Traffic staging to be determined during the final design.

Item #21: Based upon the most recent inspection report dated September 4, 2018, the following deficencies are noted: -Girder 1 was damaged in 2017 by a dump truck traveling full speed below the bridge with a lifted box. The girder was repaired with heat straightening in 2018.

Item #22: Per the asbestos inspection report dated June 14, 2016 none of the materials that were identified as potentially ACM and sampled tested postive for asbestos. The overlay on the bridge can proceed as planned. Standard Special Provision (STSP) 107-125 should be included in the specifications.

Other:

No additional maintenace items were requested/recommended or approved by the SE region to be included. Per the inspection report dated September 4, 2018 the pier cap is experiencing several load induced cracks radiating diagonally up from each column. The pier cap is also experiencing several vertical cracks above each column. It is highly reccommended to rehabilitate the pier cap.